

## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/832,505	04/10/2001	Shie Qian	5150-55200	2448
75	90 01/15/2004		EXAMINER	
Jeffrey C. Hood			NGUYEN, TU T	
Conley, Rose, & Tayon, P.C. P.O. Box 398			ART UNIT	PAPER NUMBER
Austin, TX 78	3767		2877	
			DATE MAILED: 01/15/200-	4

Please find below and/or attached an Office communication concerning this application or proceeding.

				$M_{\sim}$		
		Application No.	Applicant(s)			
Office Action Summary		09/832,505	QIAN ET AL.			
,• •	Office Action Summary	Examiner	Art Unit			
	The MAN INC DATE of this communication	Tu T. Nguyen	2877			
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sne	n with the correspondence address	\$ <del></del>		
THE   - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATION in the may be available under the provisions of 37 CFI SIX (6) MONTHS from the mailing date of this communication is period for reply specified above is less than thirty (30) days, at period for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by streply received by the Office later than three months after the median patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, however, m. In reply within the statutory minimum riod will apply and will expire SIX (6) latute, cause the application to beco	ay a reply be timely filed of thirty (30) days will be considered timely. MONTHS from the mailing date of this commun ne ABANDONED (35 U.S.C. § 133).	lication.		
1) 🗌	Responsive to communication(s) filed on _	·				
2a) <u></u> □	This action is <b>FINAL</b> . 2b) T	his action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5) 6) 7)	Claim(s) <u>1-122</u> is/are pending in the applicate 4a) Of the above claim(s) is/are with Claim(s) is/are allowed.  Claim(s) is/are rejected.  Claim(s) is/are objected to.  Claim(s) <u>1-122</u> are subject to restriction an	drawn from consideration				
Applicat	ion Papers					
10) 11)	The specification is objected to by the Examination The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the country of the oath or declaration is objected to by the lander 35 U.S.C. §§ 119 and 120	accepted or b) objected the drawing(s) be held in abstraction is required if the dra	eyance. See 37 CFR 1.85(a). wing(s) is objected to. See 37 CFR 1.	, ,		
		rojan najority undon 25 II C	C 2 440(a) (d) a 2 (6)			
* 5 13)	Acknowledgment is made of a claim for for All b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Busee the attached detailed Office action for a Acknowledgment is made of a claim for domince a specific reference was included in the 7 CFR 1.78.  Acknowledgment is made of a claim for domince a	nents have been received hents have been received priority documents have breau (PCT Rule 17.2(a)). list of the certified copies testic priority under 35 U.S. e first sentence of the speen provisional application has testic priority under 35 U.S.	in Application No leen received in this National Stagenot received. S.C. § 119(e) (to a provisional application or in an Application Data as been received. S.C. §§ 120 and/or 121 since a specification.	lication) a Sheet. ecific		
Attachmen		_				
2) Notice	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper Not	) 5) 🔲 Notic	iew Summary (PTO-413) Paper No(s) e of Informal Patent Application (PTO-152) :			

## **DETAILED ACTION**

## Election/Restrictions

This application contains claims directed to the following patentably distinct species of the claimed invention:

Species I: detecting Gaussian pulses by calculating between the received signal and each of the M permutations of the estimated Gaussian Pulse parameters (specification, page 6, lines 5-10).

Species II: detecting Gaussian pulses by subtracting the first modulated Gaussian from a signal to produce a modified signal (specification, page 7).

Species III: detecting Gaussian pulses by performing windowed FFT (fig 3).

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim

Application/Control Number: 09/832,505

\*Art Unit: 2877

is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one

Application/Control Number: 09/832,505

\*Art Unit: 2877

or more of the currently named inventors is no longer an inventor of at least one claim

Page 4

remaining in the application. Any amendment of inventorship must be accompanied by

a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tu T. Nguyen whose telephone number is (703) 306-

9185. The examiner can normally be reached on T-F 7:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Frank G Font can be reached on (703) 308-4881. The fax phone number

for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0956.

Tu T. Nguyen Primary Examiner

Junguyen

Art Unit 2877

1/10/04